

Dear All,

The PATC in Barcelona Supercomputing Centre is presenting the 2 courses on Programming in CUDA this July: “ **Introduction to CUDA Programming Workshop**” (4 to 6 July 2016) and **PUMPS – “Programming and Tuning Massively Parallel Systems” summer school (11 to 15 July 2016)** as part of the PATC Professional Training Program (<http://bsc.es/PATC>). The teaching and the materials are in English and there are no fees for participation.

Both are delivered by the CUDA Centre of Excellence (CCOE) awarded by NVIDIA to the Barcelona Supercomputing Centre (BSC) in association with Universitat Politècnica de Catalunya (UPC).

Introduction to CUDA course objective is to provide attendees with knowledge and hands-on experience in developing applications software for processors with massively parallel computing resources. In general, we refer to a processor as massively parallel if it has the ability to complete more than 64 arithmetic operations per clock cycle. Many commercial offerings from NVIDIA, AMD, and Intel already offer such levels of concurrency. Effectively programming these processors will require in-depth knowledge about parallel programming principles, as well as the parallelism models, communication models, and resource limitations of these processors.

The target audiences of the course are programmers who want to develop exciting applications for these processors, as well as those who want to develop programming tools and future implementations for these processors.

For further details and registration: <http://www.bsc.es/cuda-introduction-patc>

The seventh edition of the [Programming and Tuning Massively Parallel Systems summer school \(PUMPS\)](#) is aimed at enriching the skills of researchers, graduate students and teachers with cutting-edge technique and hands-on experience in developing applications for many-core processors with massively parallel computing resources like GPU accelerators.

- Applications due: **May 31, 2016** -Due to space limitations, early application is strongly recommended. You may also be suggested to attend an online prerequisite training on basic CUDA programming before joining PUMPS.
- Notification of acceptance: **June 10, 2016**

Distinguished Lecturers: [Wen-mei Hwu](#) (University of Illinois at Urbana-Champaign) and [David Kirk](#) (NVIDIA Corporation)

Invited Lecturer: [Juan Gómez-Luna](#) (Universidad de Córdoba)

BSC / UPC Lecturers: [Xavier Martorell](#) and [Xavier Teruel](#)

Please note that this is a school with pre-selection and you need to follow the registration procedure as described on the school site: <http://bcw.ac.upc.edu/PUMPS2016/registration>

If you have any specific inquiries, please visit BSC website <http://bsc.es/education> or mail us directly patc@bsc.es

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